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APPLICANT : TOPPAN PRINTING CO LTD;

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TITLE : BIODEGRADABLE INK COMPOSITION

ABSTRACT : PURPOSE: To obtain a biodegradable ink compsn. without using any org. halogenous solvent while maintaining a printability equal to that of a conventional ink compsn. by using a binder resin contg. a biodegradable polycaprolactone, a biodegradable polylactic acid, or a biodegradable polyvinyl alcohol.

CONSTITUTION: This compsn. comprises a binder resin, a solvent therefor, and a coloring or magnetic pigment. The binder resin contains 20wt.% or higher polycaprolactone having a mol.wt. of 10,000-100,000, 20wt.% or higher polylactic acid formed from 20-80wt.% D-lactic acid and 80-20wt.% L-lactic acid and having a mol.wt. of 10,000-150,000, or 20wt.% or higher polyvinyl alcohol having a mol.wt. of 20,000-90,000. When the binder resin contains polycaprolactone or polylactic acid, methyl ethyl ketone, toluene, etc., are used as the solvent. When the binder resin is polyvinyl alcohol, the solvent contains water.

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